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RICHMOND, VIRGINIA

To: Mr. R. A. Fenner

Date: 20 August 1976

From: Marian DeBardeleben

Subject: DETERMINATION OF CO IN THE GAS PHASE OF CIGARETTE SMOKE

In an attempt to collect methods for the determination of carbon monoxide in cigarette smoke, the following sources were searched: Chemical Constituents of Tobacco & Smoke internal file (compiled by J. Michaels), Passive Smoking internal file (compiled by C. O'Donohue), Chemical Abstracts (1970 to date). Some thirty articles describing specific analytical procedures were compiled, after at least twice that number of references were checked.

Not included in this report are articles dealing with CO determination in any atmosphere other than the gas phase of cigarette smoke. So many references discuss analysis for CO, both in smoke and in other environments, that this report cannot claim to be comprehensive. If additional methods yet are needed, the search can be extended.

Attached you will find:

1) A copy of method #11 (Carbon Monoxide) from K. Rothwell's Standard Methods for the Analysis of Tobacco Smoke, 2nd ed. (London: Tobacco Research Council, Research Paper No. 11, 1974).

2) A list of the ASTM published standards for carbon monoxide determination. Please note especially #D 3162.

3) A set of abstracts describing the methods of analysis, categorized broadly by type of instrumentation used.

Please let me know if you require this search to be continued.

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Attachments



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